

METROPOLITAN WASTEWATER DEPARTMENT

CITY OF SAN DIEGO

APPROVED MATERIALS LIST

FOR MUNICIPAL SEWER

AUGUST 2007

SUBJECT	SPEC. REF	MANUFACTURER (Series/Model No.)	ADDITIONAL REQUIREMENTS
A. Sewer Pipe			
1. Vitrified Clay Extra Strength Pipe and Fittings	207-8 ASTM C 700	Pacific Clay Pipe Gladdin and McBean Mission Clay	Plain End and Bell and Spigot Type Pipe
2. PVC Sewer Pipe and Fittings—Gasket Joints 4 thru 15 inches diameter	207-17 ASTM D 3034 SDR-35	J-M Cetainteed Carlon Pacific Western Plastics Vinyltech Diamond Plastics Corp.	Green Bell
3. PVC Sewer Pipe and Fittings—Gasket Joints 18 thru 30 inches diameter	2017-17 ASTM F 679 “T-1” only	J-M Carlon Cetainteed Pacific Western Plastics	
B. Sewer Laterals			
1. Vitrified Clay Pipe	207-8	Gladdin and McBean Mission Clay	Plain End and Bell and Spigot Type Pipe
2. PVC Pipe	207-17 ASTM D 2751	J-M Cetainteed Pacific Western Plastics Vinyltech	
3. ABS (Acrylonitrile-butadiene-styrene) Solid Wall Pipe	207-15 ASTM D 2751	Colby Standard Plastics	
C. Sewer Fittings			
1. Vitrified Clay Fittings	207-8	Gladdin and McBean Mission Clay	Plain End and Bell and Spigot Type Pipe
2. PVC Fittings	207-17	Vassallo Multi-Fittings G.P.K. J-M	
3. ABS Fittings	207-15	U-Brand	
D. Pre-Cast Sewer Manholes Bases	ASTM C 478	Mar-Con Products	
E. Sewer Rehabilitation Products			
1. PE Solid Pipe	500-1.3	Chevron Plexco Phillip Driscopipe	Reno, Nevada Plant Watsonville Plant
2. Cured-in-Place	500-1.4	Inliner-Fabric Tube: polyester felt Resin: Dow Derakane 411 vinylester Insituform-Fabric Tube: Polyester felt	Houston, Texas Plant Memphis, Tennessee Plant

		Resin #1: Shell Epon 9215 epoxy Resin #2: Interplastics VE8319 vinylester	
3. Profiled PVC	500-1.5	Danby	Toronto, Canada Plant
4. Deformed Solid Wall PE	500-1.7	Hydroconduit Uliner—Navacor Resin	Roaring Springs, Texas Plant Houston, Texas Plant
5. CCFRPM	500-1.8	Hobas Pipe	Birmingham, New York Plant Waco, Texas Plant
6. Folded Solid Wall PVC	500-1.10	America Plastic AMLiner Insituform Nupipe	
7. Machine Spiral Wound PVC (November 2001)	500-1.13	RIB LOC	Gepps Gross, South Australia Plant
8. MultiPlexx Liner System, Type PVCP (November 2002)	Add: 500-2.5 Cured-In-Place Manhole Rehabilitation	Product: MultiPlexx Liner System by Terre Hill Composites MultiPlexx Liner System: Type/Model PVCP 20-28≥88 mils consisting of: PVC Liner: 20 mils PVC Polyester Fleece Backing: 10 oz.yd ² Fiberglass Backing: 18 oz/yd ² Resin: EPON 9215 at 0.0005 gallons per square foot of manhole area Epoxy: Application to substrate surface of manhole to be rehabilitated.	Manufacturing Plant Site: Terre Hill Composites, Division of Terre Hill Concrete Products, Terre Hill, Pennsylvania Resin: Manufactured by Resolution Performance Products Installers: Tejon Constructors, Inc.
9. Raven 405 Epoxy Lining System (November 2003)	Add: 500-2.6	Product: Raven 405 Epoxy Liner System by Raven Lining Systems, Inc. Raven 405 is a solvent-free 100% solids, extra high-build epoxy which can be applied over 200 mils in a single application. Light blue is the standard color when applied. Theoretical coverage averages 40 ft ² per gallon at 40-mil thickness. Product shall be applied by an applicator approved and certified by Raven Lining Systems.	Raven 405 Epoxy is manufactured by Raven Lining Systems, Inc. Plant is located at 1024 North Lansing Avenue, Tulsa, Oklahoma 74106
10. Zebron Epoxy 900/Polyurethane 386 Lining System (July	Add: 500-2.7	Approved products are: Zebron Low Temperature Epoxy 9000 Primer, and Polyurethane 386.	The Low Temperature Epoxy 9000 is manufactured by a third party.

2006)		<p>Epoxy 9000 is a 100 percent solids, moisture tolerant, capable of spray application of 5 mils thickness in one continuous coat.</p> <p>Polyurethane 386 is 100 percent solids, high-build polyurethane capable of spray application to 125 mils thickness in one continuous coat.</p> <p>The average coverage of Zebron Polyurethane 386 is 12 ft² gallons at thickness of 125 mils.</p>	<p>However, Polyurethane 386 is Zebron's proprietary product. Zebron Epoxy 9000 and Polyurethane 386 are processed at: 1141 N Cosby Way Units H, I & J Anaheim, CA 92806 (800) 824-4214</p>
11. Utilithane Epoxy-Polyurethane (July 2007)	Add: 500-2.7 Prime Coating Incorporated	<p>Utilithane 1600 Polyurethane and Utilithane 900 Low Temperature Epoxy are proprietary products of Prime Coatings Inc. This product is spray applied using airless spray equipment. Utilithane 1600 is dense polyurethane with no VOCs, and Utilithane 900 Epoxy is a two component product formulated as a "Fast-Set" or "Slow-Set".</p>	<p>Address of Prime Coatings Inc. is: P.O. Box 3056 Tustin, CA 92781 Phone (714) 963-9583 Email: utilithane@sbcglobal.net Website: www.utilithane.com</p>
F. Miscellaneous			
1. Flexible Couplings		Smith-Blair 441 Rockwell APAC (331,323,335), (CDC-EC) DFW Plastics, Inc.	
2. Transition Gaskets	ASTM D 1869	Newby Rubber, Inc.	
3. High-Deflection Couplings 4 thru 12 inches diameter		Certaineed	
4. Flexible Saddles (Wyes)		DFW Plastics, Inc.	